

Clean Water Action Plan

Utah Unified Watershed Assessment and Watershed Restoration Priorities

October 1, 1998

CLEAN WATER ACTION PLAN

UTAH UNIFIED WATERSHED ASSESSMENT AND WATERSHED RESTORATION PRIORITIES

INTRODUCTION: Under the Clean Water Action Plan announced in February 1998, natural resource agencies were directed to develop a Unified Watershed Assessment Report. The plan calls for states to work with other appropriate agencies, governments and the public to bring together existing assessment efforts to assess the condition of water resources and identify the following:

- Watersheds not meeting, or facing imminent threat of not meeting, clean water or other natural resource goals;
- Watersheds meeting goals but needing action to sustain water quality;
- Watersheds with pristine/sensitive aquatic system conditions on federal, state, or tribal lands; and
- Watersheds where more information is needed to assess conditions.

Based on these assessments, the Clean Action Water Plan calls for states to identify problem watersheds that are most in need of attention beginning in FY 1999-2000. The objective is to combine these assessments and build on current, cooperative efforts to identify common priorities, not to create a new activity that competes with existing processes. Consequently, the Utah Division of Water Quality and the Natural Resource Conservation Service, joined with other state, and federal agencies (Table 1) in early July to determine how to approach this combined assessment.

Table 1. State and Federal Agencies Participating
Utah Division of Water Quality
Natural Resource Conservation Service
U.S. Bureau of Land Management
U.S. Fish and Wildlife Service
U.S. Bureau of Reclamation
Utah Department of Agriculture and Food
U.S. Forest Service
Utah Department of Natural Resources
Utah Association of Conservation Districts
Utah Division of Water Rights
U.S. National Park Service
Utah Division of Wildlife Resources

The various agencies were asked to gather data and provide information on the watersheds that they had information or concerns about and submit it to the Division of Water Quality in electronic format (see attached spreadsheet). From this information, the watersheds or hydrological units were to be assessed and placed into the various watershed categories.

UNIFIED WATERSHED ASSESSMENT: For the purpose of the Unified Watershed Assessment the 8 digit Hydrologic Units were used as the geographic watershed areas for assessment. Hydrologic Unit Code (HUC) boundaries are a subdivision of the United States made by the U.S. Geological Survey (USGS), to show major and minor river basins. Watersheds were defined as the eight digit U.S. Geological Survey's Hydrological Unit Codes. The Unified Watershed Assessment calls for the state to identify and place these watersheds into four categories (Table 2).

Table 2. Unified Watershed Assessment Categories.

Category I - Watersheds in Need of Restoration

Category II - Watersheds Meeting Goals

Category III - Watersheds with Pristine or Sensitive Aquatic Systems

Category IV - Watersheds with Insufficient Data to make an Assessment

Because of the necessity of meeting the U.S. Environmental Protection Agency's directive that a draft list be submitted by August 1, 1998, the draft assessment list was based upon the following criteria: (1) if the watersheds (defined by 8-digit HUC) had one water body; lake, reservoir, or stream segment; that appears on Utah's 1998 303(d) List (waters identified as not meeting water quality standards or impaired) or a water body that had an approved TMDL, they were considered Category I watersheds, (2) All other watersheds were listed as Category IV watersheds. The draft list was submitted to EPA on August 1, 1998.

Subsequently, the individuals representing the various agencies met during the early part of August to finalize the submission of information to the Division of Water Quality. This information was then consolidated and sent back to the agencies for review. The results of that information gathering is listed in the attached spreadsheet.

Due to the amount of information provided by the various agencies and the necessity of submitting the list to EPA by October 1, 1998, the following criteria were used to categorize watersheds: Watersheds with 303(d) water bodies or TMDL approved waterbodies within their boundaries were identified as Category I watersheds, and the remaining watersheds were identified as Category IV watersheds. (Figure 1).

A summary sheet for the 68 hydrological units is found in Table 4. This table lists the Water Quality Management Unit, the Hydrological Unit Code, the Hydrological Unit Name, the Division of Water Quality's 303(d) water quality assessment results completed for the 1998 303(d) list, water bodies with approved TMDLs, the other agencies that had concerns or information about the various

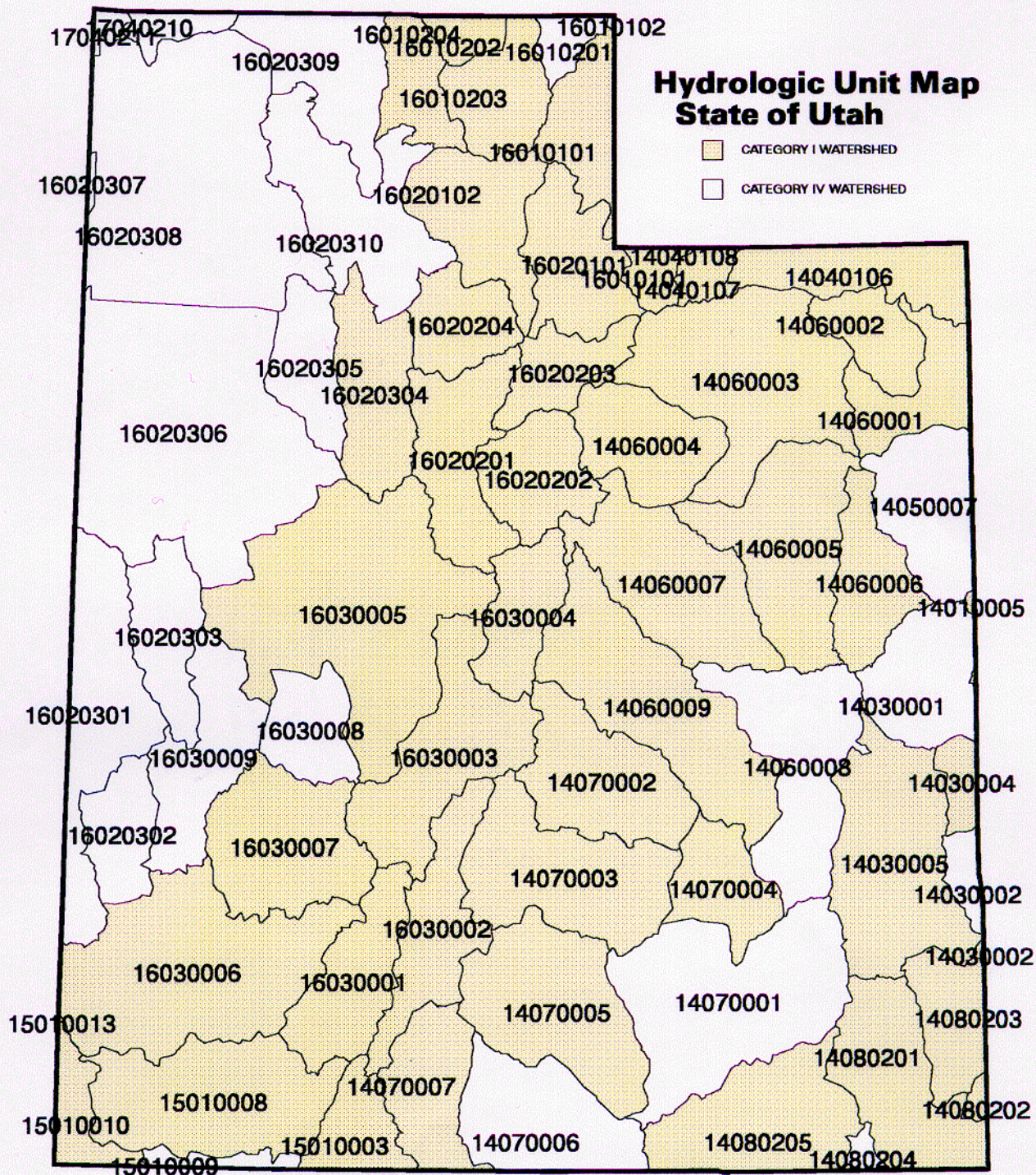


Figure 1. Watershed Category Assessment of Hydrological Units in Utah.

hydrological units, and the Category placement. Forty-two HUCs were designated as Category I watersheds, and 26 were designated as Category IV. Table 3 provides a list of the abbreviations used to denote the different agencies in Table 4.

Because of the method used to categorize the watersheds, Utah currently does not have any Category II or III watersheds. However, some agencies identified sub-watersheds within some of the HUCs as Category II and III watersheds. There is also the potential for several watersheds to be listed as Category II watersheds or changed to Category IV watersheds if the criteria for Category I Watersheds is change to some percent of the assessed waters within the watershed being impaired.

Ground water data and information were not used in categorizing watersheds in this round of the Unified Watershed Assessment because data and information are not available statewide at this time. Where there is sufficient data and information, the data may be used to assist in the categorization as the assessment is enhanced and updated. The DWQ's Ground Water Section is developing an ambient ground water monitoring program to obtain information on ground water. They are working closely with the Division of Water Rights to implement their water quality monitoring at the time the Division of Water Rights is doing studies to determine the quantity of water in various watersheds. The need for ground water protection and some information was used to assist in determining high priority watersheds. The Division of Water Rights recently declared that there would be no further exchange of water rights in the Snyderville Basin Area of the Upper Weber River watershed. In addition, this watershed contains the fastest growing county in the state. This information was used to rank the Upper Weber River as one of the 13 watersheds in need of resource protection and improvement during the 1998-2000 time frame. Population growth in Washington County and the potential effect on ground water was also used in listing the Upper Virgin River HUC in the highest priority watersheds,

Table 3. List of Agencies and Their Abbreviations.	
Agency	Abbreviation
Department of Environmental Quality ¹	DEQ
Utah Division of Water Quality ¹	DWQ
Utah Division Water Rights	DWR
Utah Division of Wildlife Resources ¹	DWR
U.S. Forest Service ¹	USFS
Natural Resource Conservancy Agency ¹	NRCS
Utah Division of Drinking Water	DDW
U.S. Fish and Wildlife Service	FWS
U.S. Bureau of Reclamation	BOR
U.S. Bureau of Land Management	BLM
U.S. National Park Service	USNPS

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Agency	Abbreviation
Utah Association of Conservation Districts ¹	UACD
Utah State Extension Service ¹	USES
Panoramoland Resource Conservation and Development ¹	PRC&D
1 - These agencies were members of the Sevier River Technical Advisory Committee	

The Natural Resource Conservation Services's National Resource Inventory data were not used to categorize the watersheds. The data available in this data base is being evaluated and there is the possibility that some of the data in it will be used to categorize the watersheds as the Unified Watershed Assessment continues and the abundance of information submitted by the workgroup is evaluated further.

Utah does not currently have a threatened waters category in its assessment of beneficial uses. However, the state does identify waters that need more data and information collected to determine if any beneficial uses are being impaired if nutrients (total phosphorus) levels are determined to be elevated. Threatened and endangered species were not considered in the Unified Watershed Assessment.

Idaho, Nevada, and Colorado requested that Utah compare their category assessments with its assessment of HUCs that crossed state-lines. Where there were differences, it can be attributed to lack of sufficient data to make an assessment and different methods used to categorize HUCs.

Table 4. Utah's Summary of Unified Watershed Assessment

No.	DWQ WMU	HUC Number	HUC Name	Concerned Agencies	Miles of Streams on 303(d) List	Number of Lakes/Reservoirs on 303(d) List	Number of TMDL Approved Stream Miles	Unified Watershed Assessment Category
1	Southeast Colorado	14010005	Colorado Headwaters/Plateau Utah	DWQ	0.0	0.0	0.0	IV
				NRCS				
2	Southeast Colorado	14030001	Westwater Canyon	DWQ	0.0	0.0	0.0	IV
				FWS				
				BLM				
3	Southeast Colorado	14030002	Upper Delores	DWQ	0.0	0.0	0.0	IV
				BLM				
4	Southeast Colorado	14030004	Lower Delores	DWQ	76.3	1 (6 Acres)	0.0	I
				USFS				
				NRCS				
				BLM				
5	Southeast Colorado	14030005	Upper Colorado-Kane Springs	DWQ	0.0	1 (86 Acres)	0.0	I
				BLM				
				USFS				
				DDW				
				FWS				
				NRCS				
				USNPS				
6	Uinta	14040106	Upper Green-Flaming Gorge Reservoir	DWQ	0.0	4 (672 Acres)	0.0	I
				USFS				
				NRCS				
				DDW				
				FWS				
				BLM				

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7	Uinta	14040107	Blacks Fork	DWQ USFS NRCS	0.0	4 (133 Acres)	0.0	I
8	Uinta	14040108	Muddy	DWQ USFS	0.0	0.0	0.0	IV
9	Uinta	14050007	Lower White	DWQ FWS BLM	0.0	0.0	0.0	IV
10	Uinta	14060001	Lower Green-Diamond	DWQ USFS NRCS FWS USNPS	0.0	2 (1,830 Acres)	0.0	I
11	Uinta	14060002	Ashley-Brush	DWQ NRCS DDW FWS DWR BLM	15.2	1 (829 Acres)	0.0	I
12	Uinta	14060003	Duchesne	DWQ NRCS FWS	307.5	2 (68 Acres)	0.0	I
13	Uinta	14060004	Strawberry	DWQ USFS NRCS FWS BLM	44.4	2 (17,320 Acres)	0.0	I

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14	Uinta	14060005	Lower Green - Desolation Canyon	DWQ	107.8	0.0	0.0	I
				NRCS				
				BLM				
				FWS				
15	Uinta	14060006	Willow	DWQ	57.5	0.0	0.0	I
				NRCS				
				FWS				
				BLM				
16	West Colorado	14060007	Price	DWQ	126.7	3 (2,977 Acres)	0.0	I
				BLM				
				BOR				
				NRCS				
				DDW				
				DWR				
17	West Colorado	14060008	Lower Green	DWQ	0.0	0.0	0.0	IV
				BLM				
				DDW				
				FWS				
				USNPS				
18	West Colorado	14060009	San Rafael	DWQ	63.0	5 (827 Acres)	0.0	I
				BLM				
				NRCS				
				DDW				
				FWS				
19	West Colorado	14070001	Upper Lake Powell	DWQ	0.0	0.0	0.0	IV
				USFS				

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				BLM				
				FWS				
				USNPS				
20	West Colorado	14070002	Muddy	DWQ	98.2	0.0	0.0	I
				NRCS				
				BLM				
				DDW				
21	West Colorado	14070003	Fremont	DWQ	82.0	6 (3,187 Acres)	0.0	I
				BLM				
				NRCS				
				DDW				
				FWS				
				DWR				
				USNPS				
22	West Colorado	14070004	Dirty Devil	DWQ	63.0	0.0	0.0	I
				BLM				
				NRCS				
				FWS				
				USNPS				
23	West Colorado	14070005	Escalante	DWQ	119.0	2 (165 Acres)	0.0	I
				USFS				
				NRCS				
				FWS				
				USNPS				
24	Southeast Colorado	14070006	Lower Lake Powell	DWQ	0.0	0.0	0.0	IV
				NRCS				

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				FWS				
				BLM				
25	Southeast Colorado	14070007	Paria	DWQ	**	0.0	0.0	I
				USFS				
				NRCS				
				BLM				
26	Southeast Colorado	14080201	Lower San Juan-Four Corners	DWQ	50.0	1 (32 Acres)	0.0	I
				BLM				
				DDW				
				FWS				
				USNPS				
27	Southeast Colorado	14080202	McElmo	DWQ	24.3	0.0	0.0	I
				BLM				
				NRCS				
				USNPS				
28	Southeast Colorado	14080203	Montezuma	DWQ	117.0	1 (104 Acres)	0.0	I
				BLM				
				NRCS				
29	Southeast Colorado	14080204	Chinle	DWQ	0.0	0.0	0.0	IV
30	Southeast Colorado	14080205	Lower San Juan	DWQ	55.0	0.0	0.0	I
				BLM				
				FWS				
				NRCS				
				USNPS				

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31	Lower Colorado	15010003	Kanab	DWQ	16.7	0.0	0.0	I
				USNPS				
				NRCS				
				BLM				
32	Lower Colorado	15010008	Upper Virgin	DWQ	130.2	5 (1,456 Acres)	0.0	I
				BLM				
				USFS				
				NRCS				
				DDW				
				FWS				
33	Lower Colorado	15010009	Fort Pierce Wash	DWQ	0.0	0.0	0	IV
				BLM				
34	Lower Colorado	15010010	Lower Virgin	DWQ	8.5	0.0	0.0	I
				BLM				
				NRCS				
				FWS				
35	Lower Colorado	15010013	Meadow Valley Wash	DWQ	0.0	0.0	0.0	IV
36	Bear River	16010101	Upper Bear	DWQ	0.0	2 (153 Acres)	0.0	I
				USFS				
37	Bear River	16010102	Central Bear	DWQ	0.0	0.0	0.0	IV
38	Bear River	16010201	Bear Lake	DWQ	0.0	0.0	0.0	IV
				USFS				

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39	Bear River	16010202	Middle Bear	DWQ NRCS	38.6	1 (350 acres)	67.1	I
40	Bear River	16010203	Little Bear - Logan	DWQ USFS NRCS DDW FWS DWR	21.7	3 (653 Acres)	0.0	I
41	Bear River	16010204	Lower Bear - Malad	DWQ NRCS FWS DWR	32.1	1 (554 Acres)	0.0	I
42	Weber River	16020101	Upper Weber	DWQ NRCS USFS DWR	95.1	1 (1,394 Acres)	119.4	I
43	Weber River	16020102	Lower Weber	DWQ BOR USFS NRCS FWS DWR DDW	0.0	3 (4,583 Acres)	0.0	I
44	Jordan / Utah Lake	16020201	Utah Lake	DWQ USFS NRCS FWS USNPS	16.2	1 (96,600 Acres)	0.0	I

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45	Jordan / Utah Lake	16020202	Spanish Fork	DWQ	37.8	1 (23 Acres)	0.0	I
				USFS				
				NRCS				
				FWS				
46	Jordan / Utah Lake	16020203	Provo	DWQ	0.0	2 (2,980)	0.0	I
				NRCS				
				DDW				
				FWS				
47	Jordan / Utah Lake	16020204	Jordan	DWQ	80.7	3 (272 Acres)	0.0	I
				USFS				
				NRCS				
				DDW				
				FWS				
				DWR				
48	Great Salt Lake Desert/ Columbia	16020301	Hamlin-Snake Valleys	DWQ	0.0	0.0	0.0	IV
				BLM				
				NRCS				
49	Great Salt Lake Desert/ Columbia	16020302	Pine Valley	DWQ	0.0	0.0	0.0	IV
				BLM				

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50	Great Salt Lake Desert/ Columbia	16020303	Tule Valley	DWQ	0.0	0.0	0.0	IV
				NRCS				
51	Great Salt Lake Desert/ Columbia	16020304	Rush-Tooele Valleys	DWQ		1 (80 Acres)		I
				FWS				
				NRCS				
52	Great Salt Lake Desert/ Columbia	16020305	Skull Valley	DWQ	0.0	0.0	0.0	IV
				FWS				
53	Great Salt Lake Desert/ Columbia	16020306	Southern Great Salt Lake Desert	DWQ	0.0	0.0	0.0	IV
				FWS				
54	Great Salt Lake Desert/ Columbia	16020307	Pilot - Thousand Springs	DWQ	0.0	0.0	0.0	IV
				NRCS				
55	Great Salt Lake Desert/ Columbia	16020308	Northern Great Salt Lake Desert	DWQ	0.0	0.0	0.0	IV
				FWS				
				NRCS				

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56	Great Salt Lake Desert/ Columbia	16020309	Curlew Valley	DWQ	0.0	0.0	0.0	IV
				NRCS				
				USNPS				
57	Great Salt Lake Desert/ Columbia	16020310	Great Salt Lake	DWQ	0.0	0.0	0.0	IV
				FWS				
58	Sevier River	16030001	Upper Sevier	DWQ	0.0	2 (1,982 Acres)	0.0	I
				Sevier River TAC				
				FWS				
59	Sevier River	16030002	East Fork Sevier	DWQ	87.0	5 (3,137 Acres)	0.0	I
				Sevier River TAC				
				USNPS				
60	Middle Sevier River	16030003	Middle Sevier	DWQ	0.0	3 (124 Acres)	0.0	I
				Sevier River TAC				
61	Sevier River	16030004	San Pitch	DWQ	49.2	3 (1,550 Acres)	0.0	I
				Sevier River TAC				
62	Sevier River	16030005	Lower Sevier	DWQ	127.6	0.0	0.0	I
				FWS				
				Sevier River TAC				
63	Cedar / Beaver	16030006	Escalante Desert	DWQ	0.0	4 (463 Acres)	0.0	I
				BLM				
				USFS				

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No.	DWQ WMU	HUC Number	HUC Name	Concerned Agencies	Miles of Streams on 303(d) List	Number of Lakes/Reservoirs on 303(d) List	Number of TMDL Approved Stream Miles	Unified Watershed Assessment Category
64	Cedar / Beaver	16030007	Beaver Bottoms-Upper Beaver	DWQ	242.2	5 (1,162 Acres)	0.0	I
				NRCS				
				DWR				
				BLM				
65	Cedar / Beaver	16030008	Lower Beaver	DWQ	0.0	0.0	0.0	IV
				FWS				
				BLM				
66	Cedar / Beaver	16030009	Sevier Lake	DWQ	0.0	0.0	0.0	IV
			BLM					
67	Great Salt Lake Desert / Columbia	17040210	Raft	DWQ	0.0	0.0	0.0	IV
68	Great Salt Lake Desert / Columbia	17040211	Goose	DWQ	0.0	0.0	0.0	IV

PRIORITIZATION OF WATERSHEDS: As the process continues over the next year, it will be necessary for the workgroup to further refine identification and prioritizing of the Category I watersheds because various watersheds have different amounts and types of TMDL waters and have more or less natural resource concerns identified by the other agencies. Questions that need to be answered are, 'What percent of the streams in a HUC were assessed and what percent of these were assessed as being impaired?'. Also of interest, is how to determine further use of impaired lakes and reservoirs in categorizing and ranking the watersheds. Factors such as size of the waterbody, watershed size affecting the waterbody, clean lakes studies, TMDL status and state ranking of importance could be used to assist in prioritizing the watersheds.

Category I watersheds were placed into three sub-categories, A, B and C.

The following factors were considered in prioritizing Category I watersheds:

- 1. Were there any current or pending 319 project(s) within the watershed,**
- 2. Were there any current or pending water quality projects or other resource protection projects identified by other agencies in the water shed, i.e. Central Utah Project mitigation projects, Division of Wildlife Resource habitat improvement projects, etc.,**
- 3. Were there any water quality management plans developed or being developed for the watershed,**
- 4. Was there a critical need for completing a TMDL in the 1998-2000 year cycle, and could the results of this TMDL potentially result in the implementation of stricter point source permit limits and the implementation of nonpoint source best management practices to improve or protect water quality,**
- 5. Was the watershed (HUC) a significant source of pollutants affecting waterbodies in a downstream watershed or could the watershed have the potential to affect a high priority waterbody in a downstream watershed, i.e., the Spanish Fork watershed is a significant contributor of pollutants to Utah Lake, the largest lake in the state (96,400 acre feet) that is listed as a 303(d) waterbody,**
- 6. Has there been or is there continuing population growth that could significantly impact water quality or other resources in the watershed in the near future,**
- 7. Was their wide-spread local support, especially private land-owners, for improving natural resources in the watershed, and**
- 8. How many agencies had resource concerns within the watershed?**

The placement of a waterbody in Sub-Categories A and B was done on a subjective basis on the criteria listed above. The decision to place a waterbody in sub-category A, near-term priority, was weighted towards those watersheds that have current or proposed water quality or other resource improvement projects that would improve or protect water quality, the near-term need for such work,

and wide-spread local support. The 13 selected watersheds were also selected because they met most of the other criteria also.

Utah is seriously considering and has begun to evaluate methods for determining a numerical ranking criteria to use in future prioritization of its Category I watersheds. This will entail selecting the criteria to be used, weighting those that are selected as the most significant criteria, and developing the numerical method for ranking the watersheds.

Sub-category B and C watersheds were determined by whether or not an intensive water quality monitoring survey had been completed and an assessment completed using intensive water quality monitoring data. In 1992, Utah separated the state into 5 monitoring regions (Table 5) which were composed of 10 water quality management units (Figure 2.) Intensive water quality data collection and assessment was begun in 1992. It was the goal of the DWQ to complete intensive monitoring in the 5 monitoring regions in five years. The final intensive water quality monitoring surveys were completed on the Southeastern Colorado and Western Colorado Water Quality Management Units in July 1998. These data are currently being entered into the Division's water quality database and will be used to do water quality assessment work in the near future. Because of these data and the fact that the 303(d) waters currently listed in these water quality management units were based on data older than five years, it was decided to place all HUCs in these two water quality management areas in sub-category C. The reason for this is that there will be a complete revision of the defined waterbodies, and there is a high probability that some of the current beneficial use support assessments will change. It was therefore decided not to prioritize either sub-category B and C watersheds until this assessment was completed. The projected assessment is scheduled for completion in April 1999. To have prioritized these two groups would not have been based on the best data and would have resulted in the state having to re-prioritize them within the next year again with the potential results being entirely different. Figure 3 is a map of the sub-category watersheds. Table 6 contains a listing of the Category I watersheds and their sub-watershed categories. Table 7 is a list of the Category IV watersheds.

Table 5. Water Quality Monitoring Regions	
Region	Watershed Management Unit
1	Bear River, Weber River
2	Jordan River, Great Salt Lake Desert/Columbia
3	Uinta
4	Sevier River, Cedar/Beaver, Lower Colorado
5	West Colorado, Southeast Colorado

CLARIFICATION OF CATEGORY I WATERSHEDS: It is important to note that the entire areas depicted by the Category I Watersheds should not be considered totally impaired or immediately threatened. Instead, Category I Watersheds should be considered as geographic areas that have sub-watersheds that have impaired waterbodies. As previously stated, they may also contain Category II and III sub-watersheds.



Figure 2. Utah's water quality management units. .

Table 6. Category I Watershed Sub-Categories			
DWQ Water Quality Management Unit	HUC Number	HUC Name	Sub-Watershed Category
Cedar / Beaver	16030007	Beaver Bottoms-Upper Beaver	A
Jordan / Utah Lake	16020204	Jordan	A
Lower Colorado	15010008	Upper Virgin	A
Sevier River	16030001	Upper Sevier	A
Uinta	14060002	Ashley-Brush	A
Uinta	14060003	Duchesne	A
Bear River	16010101	Upper Bear	A
Bear River	16010202	Middle Bear	A
Jordan / Utah Lake	16020202	Spanish Fork	A
Weber River	16020101	Upper Weber	A
Weber River	16020102	Lower Weber	A
Jordan / Utah Lake	16020203	Provo	A
Sevier River	16030002	East Fork Sevier	A
Bear River	16010203	Little Bear - Logan	B
Bear River	16010204	Lower Bear - Malad	B
Jordan / Utah Lake	16020201	Utah Lake	B
Lower Colorado	15010003	Kanab	B
Lower Colorado	15010010	Lower Virgin	B
Middle Sevier River	16030003	Middle Sevier	B
Sevier River	16030004	San Pitch	B
Sevier River	16030005	Lower Sevier	B
Uinta	14040106	Upper Green-Flaming Gorge Reservoir	B
Uinta	14040107	Blacks Fork	B
Uinta	14060001	Lower Green-Diamond	B
Uinta	14060004	Strawberry	B
Uinta	14060005	Lower Green - Desolation Canyon	B
Uinta	14060006	Willow	B
Cedar / Beaver	16030006	Escalante Desert	B
Great Salt Lake Desert/Columbia	16020304	Rush-Tooele Valleys	B
West Colorado	14060007	Price	C
Southeast Colorado	14030004	Lower Delores	C
Southeast Colorado	14030005	Upper Colorado-Kane Springs	C
Southeast Colorado	14070007	Paria	C
Southeast Colorado	14080201	Lower San Juan-Four Corners	C
Southeast Colorado	14080202	McElmo	C
Southeast Colorado	14080203	Montezuma	C
Southeast Colorado	14080205	Lower San Juan	C
West Colorado	14060009	San Rafael	C
West Colorado	14070002	Muddy	C
West Colorado	14070003	Fremont	C
West Colorado	14070004	Dirty Devil	C
West Colorado	14070005	Escalante	C

Table 7. Category IV Watersheds.		
Water Quality Management Unit	HUC Number	HUC Name
Southeast Colorado	14010005	Colorado Headwaters/Plateau Utah
Southeast Colorado	14030001	Westwater Canyon
Southeast Colorado	14030002	Upper Delores
Uinta	14040108	Muddy
Uinta	14050007	Lower White
West Colorado	14060008	Lower Green
West Colorado	14070001	Upper Lake Powell
Southeast Colorado	14070006	Lower Lake Powell
Southeast Colorado	14080204	Chinle
Lower Colorado	15010009	Fort Pierce Wash
Lower Colorado	15010013	Meadow Valley Wash
Bear River	16010102	Central Bear
Bear River	16010201	Bear Lake
Great Salt Lake Desert / Columbia	16020301	Hamlin-Snake Valleys
Great Salt Lake Desert / Columbia	16020302	Pine Valley
Great Salt Lake Desert / Columbia	16020303	Tule Valley
Great Salt Lake Desert / Columbia	16020305	Skull Valley
Great Salt Lake Desert / Columbia	16020306	Southern Great Salt Lake Desert
Great Salt Lake Desert / Columbia	16020307	Pilot - Thousand Springs
Great Salt Lake Desert / Columbia	16020308	Northern Great Salt Lake Desert
Great Salt Lake Desert / Columbia	16020309	Curlew Valley
Great Salt Lake Desert / Columbia	16020310	Great Salt Lake
Cedar / Beaver	16030008	Lower Beaver
Cedar / Beaver	16030009	Sevier Lake
Great Salt Lake Desert / Columbia	17040210	Raft
Great Salt Lake Desert / Columbia	17040211	Goose

WATERSHED RESTORATION ACTION STRATEGIES: Restoration Watershed Action Strategies will be developed in accordance with the State of Utah's Watershed Approach Framework Plan in which the state has been divided into 10 watershed management units. As previously mentioned, the intensive monitoring in these units was completed in July 1998. Water quality assessment reports have been produced for 4 of the watersheds, and the assessment work has been completed in 3 others. The assessment reports include data and information collected from intensive monitoring, cooperative agreements with state and federal agencies and in several of the watersheds, input from local watershed steering and technical advisory committees. Watershed restoration action strategies will be prepared for priority sub-watersheds within Utah's 10 major basins as the Watershed Approach Framework is implemented over the next two years.

Along with this process the 319 Program will also be used to identify and develop watershed

restoration projects. This has and is currently occurring in several watersheds including the Little Bear River, Chalk Creek, Beaver River, Otter Creek and Mill Creek watersheds.

Restoration projects and strategies have also been developed and will continue to be developed by the NRCS through the Coordinated Resource Management Planning program. Projects that have been developed or are being developed include the Little Bear River, Weber River, Upper Sevier River, Beaver River and the Spanish Fork River watersheds.

Identification of restoration projects from other state and federal agencies will be made as they are being planned and implemented. These will be coordinated with projects where possible.